PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL		Application Number	er	10/657,145
\	-	Filing Date		September 9, 2003
FORM		First Named Inver	ntor	David Alexander
<i>\$</i>		Art Unit		3714
(to be used for all correspondence after	initial filing)	Examiner Name		Chanda L. Harris
Total Number of Pages in This Submiss		Attorney Docket N	lumber	IMMR-IMD0002D
	ENCLO	SURES (check all the	at apply)	
Fee Transmittal Form	Drawing(s	s)	-	After Allowance Communication to TC
☐ Fee Attached	Licensing	-related Papers		Appeal Communication to Board of Appeals and Interferences
Amendment / Reply	Petition			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final	Provision	Convert to a al Application		Proprietary Information
Affidavits/declaration(s)		Attorney, Revocation of Correspondence Add	dress	Status Letter
Extension of Time Request	Terminal I	Disclaimer		Other Enclosure(s) (please identify below):
Express Abandonment Request	Request f	or Refund Der of CD(s)		
☐ Information Disclosure Statement	☐ Lan	dscape Table on CD		
Certified Copy of Priority Document(s)	Remarks		,	
Reply to Missing Parts/ Incomplete Application				^
Reply to Missing Parts under 37 CFR1.52 or 1.53				
SIGI	NATURE OF	APPLICANT, ATTO	RNEY, O	R AGENT
Firm	THELEN REID	& PRIEST LLP		
Signature	-	$r\lambda \sqrt{f}$		
Printed Name	David B. Ritchie)		
Date	1026	2000	Reg. No.	31,562
	CERTIFICA	TE OF TRANSMISS	SION/MAI	LING

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete process) and application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete process) and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

Beatrice Orozco

Signature

Typed or printed name

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE der the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004. Complete if Known s pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/657,145 Application Number FEE TRANSMITTAL September 9, 2003 Filing Date for FY 2005 David Alexander First Named Inventor Applicant claims small entity status. See 37 CFR 1.27 Examiner Name Chanda L. Harris 3714 Art Unit TOTAL AMOUNT OF PAYMENT (\$) 180 00

TOTAL AMOUNT OF F	ATIMENT	(Ψ) 100.00		Attorney Docket No.	IMMR-IMD0002D)	
METHOD OF PAYME	NT (check a	ll that apply)					
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FEE CALCULATION	1011 0111 10-20						
1. BASIC FILING, S	EARCH, AN	D EXAMINAT	ION FEES				
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Application Type	<u>Fee (\$)</u>	<u>Fee(\$)</u>	<u>Fee</u> 500	(\$) <u>Fee(\$)</u> 250	<u>Fee(\$)</u> 200	<u>Fee(\$)</u> 100	rees raid (\$)
Utility	300 200	150 · 100	100	50	130	65	
Design Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
2. EXCESS CLAIM I		100	v	· ·	·	•	Small Entity
Fee Description	FLLS					Fee (\$)	Fee (\$)
Each claim over 20 (including Reis	ssues)				50	25
Each independent cla		ncluding Reissu	ies)		•	200	100
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3. APPLICATION SIZE			•				
If the specification and	d drawings exc	ceed 100 sheets	of paper (ex	cluding electronical	ly filed sequence	or computer	
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Julie (c.g., la	.c ming surem			***			

SUBMITTED BY				
Signature	MA	Registration No. (Attorney/Agent) 31,562	Telephone	(408) 292-5800
Name (Print/Type)	David B. Ritchie		Date (0 /2b)	5

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PLICANT:

David Alexander et al.

ERIAL NO.:

10/657,145

CONFIRMATION NO.: 1899

FILING DATE:

September 9, 2003

TITLE:

Interface Device and Method for Interfacing Instruments to Medical

Procedure Simulation Systems

EXAMINER:

Chandra L. Harris

Telephone: (571) 272-4448

Fax: (703) 872-9306

ART UNIT:

3714

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

MAIL STOP: AMENDMENT

COMMISSIONER FOR PATENTS

P.O. Box 1450

ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached (unless the blanket waiver referred to below applies), may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§ 1.56, 1.97 and 1.98. The Examiner is requested to review, consider and document each such item in the official record of this application.

Note: If this box X is checked, this case was filed after June 30, 2003 and qualifies for the blanket waiver of deposit of copies of U.S. Patents and U.S. Patent Application Publications in accordance with the written waiver of 37 CFR §1.98 (a)(2)(i) dated July 11, 2003. Accordingly, such copies are not attached.

This Information Disclosure Statement under 37 CFR §§ 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pu	arsuant to (CHECK ONE BO)	X):
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37 C.F.R. § 1.97(b).

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
 - (3) before the mailing date of a first office action on the merits; or
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

⊠ 37 C.F.R. § 1.97(c).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97(b), but **before** the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; or
- (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); or
 - (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); and
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

II Fees Due (CHECK ONE BOX): No fee is due. X The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180). Ш Certification (CHECK ONE BOX): X No certification is necessary. Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies: That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies: No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this information disclosure statement.

IMMR-IMD0002D (034701-000005)

IV

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

Dated: October

David B. Ritchie

Registration No. 31,562

Respectfully submitted, THELEN REID & PRIEST LLP

THELEN REID & PRIEST LLP P.O. Box 640640 San Jose, CA 95164-0640

Telephone: (408) 292-5800

Fax: (408) 287-8040

Form PTO (Rev. 2-3		U.S. Department Patent and Traden				ocket No. MD0002D	Serial No 10/657,14		
OTPE	Infor	pation Disclosure		pplicant	Applicate David A	nt: .lexander et al			
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Init	E)	7	ľ	J.S. Patent Documen	ite				
INCHABI		Document No.	Date	Name		Class	Subclass	Filing	Date
	A	2,972,140	9/23/1958	J. Hirsch				 	
	В	3,157,853	12/6/1957	J. Hirsch					
	С	3,220,121	11/30/1965	A.E. Cutler					
	D	3,226,846	1/4/1966	W.C. Wood		-	-	1	
	E	3,304,434	2/14/1967	R.A. Koster					
	F	3,497,668	2/24/1970	J. Hirsch					
	G	3,520,060	7/14/1970	C.L. Crabtree et al.					
	Н	3,517,446	6/30/1970	P.R. Corlyon et al.				1	
	I	3,541,541	11/17/1970	P.C. Engelbart					
] 	3,623,064	11/23/1971	Kagan			•		
	K	3,748,366	7/24/1973	Rader et al.					
	L	3,775,865	12/4/1973	Kowan					· <u>` </u>
	M	3,902,687	9/2/1975	Hightower			-		
	N	3,903,614	9/9/1975	Diamond et al.				-	
	0	3,911,416	10/7/1975	Feder		-			
	P	4,127,752	11/28/1978	Lowthorp					* *******
	Q	4,160,508	7/10/1979	Salisbury, Jr.					
	R	4,236,325	12/2/1980	Hall et al.					
<u> </u>	S	4,262,549	4/21/1981	Schwellenbach					
	T	4,321,047	3/23/1982	Landis					
	U	4,333,070	6/1/1982	Barnes					
				Foreign Documents	S				
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Init.		Document No.	Date	Country		Class	Subclass	Yes	No
	V	H2-185278	1/12/1989	JP				X	
	W	H4-8381	4/25/1990	JP				X	ļ
	X	H5-192449	1/20/1992	ЛР				X	
		Other Do	cuments (Inclu	ding Author, Title, I	Date, Pert	inent Pages,	etc.)		
	Y	Adelstein, "A Virtus Mechanical Engineer	al Environment Sy ering, MIT, June	stem for the Study of H 1989, 33 pages.	uman Arm	Tremor", Ph.D	D. Dissertation, D		
	Z	Adelstein et al., "De	esign and Implement	entation of a Force Refle 5, 1992, pp. 1-12.				Research"	, DSC-
	AA	Aukstakalnis, et al.,	"Silicon Mirage:	The Art and Science of			_		
	AB	Baigrie, Stephan A. Interservice/Industr	, "Electric Control y Training System	Loading - A Low Cos s Conference, November	t, High Per er 6-8, 1990	formance Altern), pp. 247-254.	native", Proceed	ings of	
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Init.	4.0		11/23/1982	Hon	<u>. </u>	Class	Subclass	1 mig	Dute	
	AC	4,360,345	10/11/1983	Sprague et al.			 	-		
	AD	4,409,479	3/27/1984	Blaine			-	<u> </u>		
	AE	4,439,162		Boscaro Gatti et al.				-		
	AF	4,459,113	7/10/1984							
	AG	4,464,117	8/7/1984	Foerst		ļ <u> </u>	 	<u> </u>		
	AH	4,484,191	11/20/1984	Vavra				<u> </u>		
	AI	4,490,810	12/25/1984	Hon						
	AJ	4,513,235	4/23/1985	Acklam et al.						
	AK	4,581,491	4/8/1996	Boothroyd			<u> </u>	_		
	AL	4,599,070	7/8/1986	Hladky et al.				ļ		
	AM	4,642,055	2/10/1987	Saliterman						
	AN	4,708,656	11/24/1987	de Vries et al.						
	AO	4,712,101	12/8/1987	Culver						
	AP	4,713,007	12/15/1987	Alban						
	AQ	4,726,772	2/23/1988	Amplatz						
	AR	4,767,333	8/30/1988	Born						
	AS	4,773,865	9/27/1988	Baldwin						
	AT	4,789,340	12/6/1988	Zikria			•			
	AU	4,794,392	12/27/1988	Selinko						
	AV	4,804,328	2/14/1989	Barrabee						
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				Foreign Documents	<u>s</u>			Tran	slation	
Init.		Document No.	Date	Country		Class	Subclass	Yes	No	
- ,	AW	H7-24147	7/12/1993	JP				X		
	AX	0 349 086	6/29/1988	EP	<u></u> ,			X		
	ΑŸ	0 970 714	1/12/1990	EP	• • • • • • • • • • • • • • • • • • • •			X		
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	AZ	Other Do Bejczy, et al., "A Labo	cuments (Inclu- eratory Breadboard S	ding Author, Title, I System for Dual-Arm Telec	operation", S	SOAR '89 Worksl	nop, July 25-27, 1	989, pp. 1-	12.	
	BA	Bejczy et al., "Gene	ralization of Bilat	eral Force-Reflecting C						
	BB	IFToMM, September Bejczy et al., "Kine	sthetic Coupling E	Between Operator and R	emote Mar	nipulator", Inter	national Compu	ter Techno	ology	
	BC	Bejczy, "Sensors, C	nerican Society of ontrols, and Man-	Mechanical Engineers, Machine Interface for A	August 12 Advanced T	eleoperation", S	Science, vol. 208	3, no. 4450), 1980,	
Examiner	_	pp. 1327-1335.				Date Consid	lered		-	
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	Infor	mation Disclosure	Statement by A	Applicant	David A	Alexander et al.	Group:		
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Init.	Т	Document No.	Date	U.S. Patent Documer Name	ıts	Class	Subclass	Filing	Date
	BD	4,807,158	2/21/1989	Blanton et al.		Class	Subclass	1 ming	
	<u> </u>	4,867,168	9/19/1989	Stoor et al.			<u> </u>	-	-
	BE		9/19/1989	Brush et al.				-	
	BF	4,867,685		Cline et al.				-	
<u> </u>	BG	4,879,668	11/7/1989						
	BH	4,885,565	12/5/1989	Embach			-	-	
	BI	4,891,764	1/2/1990	McIntosh		<u> </u>		-	
	BJ	4,907,973	3/13/1990	Hon		1			
	BK	4,930,770	6/5/1990	Baker					
	BL	4,934,694	6/19/1990	McIntosh					
	BM	4,936,862	6/26/1990	Walker et al.			<u> </u>	<u> </u>	
	BN	4,936,892	6/26/1990	Gehring et al.					
	ВО	4,955,654	9/11/1990	Tsuchihashi et al.					
	BP	5,019,761	5/28/1991	Kraft					
	BQ	5,022,384	6/11/1991	Freels et al.					
	BR	5,022,407	6/11/1991	Horch et al.	_				
	BS	5,035,242	7/30/1991	Franklin et al.					
	BT	5,038,089	8/6/1991	Szakaly					•
	BU	5,044,956	9/3/1991	Behensky et al.					
	BV	5,077,608	12/31/1991	Dubner					
	BW	5,078,152	1/7/1992	Bond et al.					
	•			Foreign Documents					•
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Init.		Document No.	Date	Country		Class	Subclass	Yes	No
	BX	2 252 656	8/12/1992	GB	.			X	
	BY	2 288 686	10/25/1995	GB				X	
		Other De	oumants (Incl.)	ding Author, Title, I	Data Dari	tinent Pages e	etc.)		
	BZ	Bejczy et al., "Univ 318-324.	ersal Computer Co	ontrol System (UCCS)	for Space	Telerobots", IEE	E, March 31-A		
	CA	Bliss et al., "Optica	arch 1970, pp. 58-	Conversion for the Blir 65.					d
2001 2011	СВ	Brooks et al., "Har Publication 85-11.	d Controllers for March 1, 1985, pp.	Γeleoperation", A State- . 1-84.					14 -
	CC	Burdea et al., "Dist 1993, pp. 25-44.	ributed Virtual For	rce Feedback", IEEE Int	ternational	Conference on F	Robotics and Au	itomation,	May 2,
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Page 4 of 14

Form PT (Rev. 2-3		U.S. Department of Patent and Tradema				ocket No. MD0002D	Serial No. 10/657,14		
	Infor	mation Disclosure S		pplicant	4	nt: .lexander et al.			
		(Use several shee	ts if necessary)		Filed: Septemb	per 9, 2003	Group: 3714		·
			т	J.S. Patent Documer	its				
Init.	T -	Document No.	Date	Name	163	Class	Subclass	Filing	Date
	CD	5,086,401	2/4/1992	Glassman et al.				<u> </u>	<u>-</u>
	CE	5,099,846	3/31/1992	Hardy					
	CF	5,112,228	5/12/1992	Zouras					
	CG	5,130,794	7/14/1992	Ritchey					
	CH	5,137,458	8/11/1992	Unas et al.					
	CI	5,149,270	9/22/1992	McKeown					
•	CJ	5,165,897	11/24/1992	Johnson					
	CK	5,175,459	12/29/1992	Danial et al.	· · · · · · · · · · · · · · · · · · ·				
	CL	5,185,561	2/9/1993	Good et al.					
	CM	5,186,695	2/16/1993	Mangseth et al.	·				
·	CN	5,205,289	4/27/1993	Hardy et al.					
	СО	5,212,473	5/18/1993	Louis					
	CP	5,220,260	6/15/1993	Schuler					
	CQ	5,222,499	6/29/1993	Allen et al.					
	CR	5,240,417	8/31/1993	Smithson et al.					
	CS	5,261,404	11/16/1993	Mick et al.					
	CT	5,271,290	12/21/1993	Fischer					
-	CU	5,273,038	12/28/1993	Beavin					
,,	CV	5,275,174	1/4/1994	Cook					
	CW	5,283,970	2/8/1994	Aigher					
	<u> </u>			Foreign Documents					
				Foreign Documents	<u> </u>			Tran	slation
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	CZ	Cyberman Technology Programming Guide,	April 5, 1994, pp.	ogic Cyberman SWIFT 1-29.	• •	_			
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	DB	Eberhardt et al., "Indu	cing Dynamic Ha	aptic Perception by the I ol. 1, ASME, 1984, pp.		em Description	and Some Resul	ts", DSC	-Vol.
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	DD	5,299,810	4/5/1994	Pierce et al.					
	DE	5,309,140	5/3/1994	Everett, Jr. et al.			_		
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	DQ	5,377,116	12/27/1994	Wayne et al.	·				
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	DU	5,414,337	5/9/1995	Schuler	-				-
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	DX			Test Apparatus for Stud			of Kinesthetic F	eedback"	,
	DY	Proceedings of the 1 Howe, "A Force-Re-	989 American Co	ontrol Conference, June ated Hand System for the	21-23, 1989 e Study of	9, pp. 332-337. Factile Sensing i	n Precision Ma	nipulation	·",
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